

What is claimed is:

1. A method for filtered application-to-application communication comprising:
providing a communication interface to an application;
filtering application data received from a process of said application
5 according to a predetermined policy; and
providing said filtered application data directly to communication hardware.
2. The method of claim 1 further comprising:
verifying the identity of said application prior to providing said filtered
10 application data.
3. The method of claim 2 further comprising:
sending at least one security token.
4. The method of claim 1 further comprising:
verifying the identity of a machine participating in said process prior to
15 providing said filtered application data.
5. The method of claim 4 further comprising:
sending at least one security token.
6. The method of claim 1, wherein providing said filtered application data
comprises providing said filtered application data directly to a multi-channel
20 network interface card having direct user-to-hardware access.
7. The method of claim 6, wherein said multi-channel network interface card is an InfiniBand card.
8. A method for filtered application-to-application communication comprising:
providing a communication interface to an application;

filtering application data received from a process of said application;
sending an authentication request to an authentication service;
receiving authentication information; and
providing said filtered application data directly to communication
5 hardware.

9. The method of claim 8 further comprising:

verifying the identity of said application prior to providing said filtered
application data.

10. The method of claim 9 further comprising:

10 sending at least one security token

11. The method of claim 8 further comprising:

verifying the identity of a machine participating in said process prior to
providing said filtered application data.

12. The method of claim 11 further comprising:

15 sending at least one security token

13. The method of claim 8, wherein providing said filtered application data
comprises providing said filtered application data directly to a multi-channel
network interface card having direct user-to-hardware access.

14. The method of claim 13, wherein said multi-channel network interface card is
20 an InfiniBand card.

15. A system for filtered application-to-application communication comprising:
multi-channel communication hardware; and

at least one application interface and filter operative to provide filtered data from an application process directly to said multi-channel communication hardware.

16. The system of claim 15, wherein said communication hardware is a multi-channel network interface card having direct user-to-hardware access.

17. The system of claim 16, wherein said multi-channel network interface card is an InfiniBand card.

18. A system for filtered application-to-application communication comprising:
multi-channel communication hardware;

at least one application interface and filter operative to provide filtered data from an application process directly to said multi-channel communication hardware; and

at least one authentication service adapted to determine whether said application process is genuine and/or whether at least one machine participating in said application process is genuine.

19. The system of claim 18, wherein said communication hardware is a multi-channel network interface card having a direct user-to-hardware access.

20. The system of claim 19, wherein said multi-channel network interface card is an InfiniBand card.